CPC COOPERATIVE PATENT CLASSIFICATION

B66D CAPSTANS

WINCHES

TACKLES, e.g. PULLEY BLOCKS

HOISTS (winding or unwinding ropes or cables for feeding or storage purposes <u>B65H</u>; rope or cable winding or unwinding mechanisms for lifts <u>B66B</u>)

NOTE

This subclass covers:

rope, cable or chain winding or unwinding mechanisms for moving all loads except lift cages, e.g. winches for dredges;

braking or detent devices characterised by their application for retarding or preventing rotary movement of a winding drum or barrel

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

and the power being transmitted from a continuously operating and

irreversible prime mover (i.e. an internal combustion engine e.g. on a motor

B66D 1/395 covered by B66D 1/36, B66D 1/50

Guide heading:

B66D 1/18

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B66D 1/00	Rope, cable, or chain winding mechanisms Capstans (portable or mobile lifting or hauling appliances <u>B66D 3/00</u>)
B66D 1/005	. {Attaching winches to vehicle wheels }
B66D 1/02	. Driving gear
B66D 1/04	manually operated
B66D 1/06	Safety cranks for preventing unwanted crank rotation and subsequent lowering of the loads
B66D 1/08	incorporating fluid motors
B66D 1/10	Steam driving gear
B66D 1/12	incorporating electric motors
B66D 1/14	Power transmissions between power sources and drums or barrels (including brakes, one-way brakes, one-way clutches, clutches activated alternately with brakes, fixed ratio gearing unless otherwise provided for in B66D 1/16 to B66D 1/24)
B66D 1/16	the drums or barrels being freely rotatable { e.g. having a clutch activated independently of a brake (B66D 1/20, B66D 1/22, B66D 1/24 take precedence; clutches activated alternately with brakes B66D 1/14, slip couplings B66D 1/14) }

	vehicle or a portable winch }
B66D 1/20	Chain, belt, or friction drives, e.g. incorporating sheaves {of fixed or variable ratio }
B66D 1/22	Planetary or differential gearings (for actuating grab buckets <u>B66D 1/70</u>) {i.e. with planet gears having movable axes of rotation }
B66D 1/225	{variable ratio or reversing gearing (fixed ratio gearing <u>B66D 1/22</u>) }
B66D 1/24	for varying speed or reversing direction of rotation of drums or barrels {i.e. variable ratio or reversing gearing (<u>B66D 1/225</u> takes precedence) }
B66D 1/26	. having several drums or barrels
B66D 1/28	. Other constructional details
B66D 1/30	Rope, cable, or chain drums or barrels
B66D 1/34	Attachment of ropes or cables to drums or barrels
B66D 1/36	Guiding, or otherwise ensuring winding in an orderly manner, of ropes, cables, or chains
B66D 1/365	{by means of pivotably mounted drums or barrels }
B66D 1/38	by means of guides movable relative to drum or barrel
B66D 1/39	by means of axially-movable drums or barrels { (pivotably mounted drums or barrel <u>B66D 1/365</u>) }
B66D 1/40	Control devices
B66D 1/42	non-automatic
B66D 1/44	pneumatic of hydraulic
B66D 1/46	· · · · electric
B66D 1/48	automatic
B66D 1/485	{electrical }
B66D 1/50	for maintaining predetermined rope, cable, or chain tension, e.g. in ropes or cables for towing craft, in chains for anchors Warping or mooring winch-cable tension control
B66D 1/505	{electrical }
B66D 1/52	for varying rope or cable tension, e.g. when recovering craft from water
B66D 1/525	{electrical }
B66D 1/54	. Safety gear
B66D 1/56	Adaptations of limit switches
B66D 1/58	responsive to excess of load
B66D 1/60	. adapted for special purposes
B66D 1/605	{scaffolding winshes (<u>B66D 1/74</u> takes precedence) }
B66D 1/62	for actuating grab buckets (electrical control in cranes <u>B66C 13/32</u>)
B66D 1/64	by means of a single rope or chain
B66D 1/66	driven by a single motor
B66D 1/68	driven by two motors
B66D 1/70	driven through planetary or differential gearings
B66D 1/72	Anchor-chain sprockets Anchor capstans

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B66D 1/74
                            Capstans
B66D 1/7405
                               {having two or more drums providing tractive force }
B66D 1/741
                                   {and having rope storing means }
B66D 1/7415
                               {Friction drives, e.g. pulleys, having a cable winding angle of less than 360
                               degrees }
B66D 1/7421
                               { having a vertical rotation axis }
B66D 1/7426
                                   { driven by motor only }
B66D 1/7431
                                   { driven manually only }
B66D 1/7436
                                   { drivable by both motor and manually }
B66D 1/7442
                               { having a horizontal rotation axis }
B66D 1/7447
                                   { driven by motor only }
B66D 1/7452
                                   { driven manually only }
B66D 1/7457
                                   { drivable by both motor and manually }
B66D 1/7463
                               { Accessories }
B66D 1/7468
                                   { Handles }
B66D 1/7473
                                      { with locking means }
B66D 1/7478
                                      { Powered handles }
B66D 1/7484
                               { Details concerning gearing arrangements, e.g. multi-speed }
B66D 1/7489
                               { having a particular use, e.g. rope ascenders }
B66D 1/7494
                               { Self-tailing capstans }
                      . . .
B66D 1/76
                               having auxiliary drums or barrels for storing the ropes or cables
                      . . .
B66D 1/78
                               for shunting, e.g. in marshalling yards
                      . . .
B66D 1/80
                            for scrapers
B66D 1/82
                            for slewing and hoisting by means of derricks
B66D 3/00
                      Portable or mobile lifting or hauling appliances
B66D 3/003
                         {using two or more cooperating endless chains }
B66D 3/006
                         {Power actuated devices operating on ropes, cables, or chains for hauling in a mainly
                         horizontal direction (B66D 3/003 takes precedence) }
B66D 3/02
                         Manually-operated, e.g. lever-actuated, devices operating on ropes, cables, or chains
                         for hauling in a mainly horizontal direction (B66D 3/04, B66D 3/12 take precedence)
B66D 3/04
                         Pulley blocks or like devices in which force is applied to a rope, cable, or chain which
                         passes over one or more pulleys, e.g. to obtain mechanical advantage (sheaves F16H
                         55/00)
B66D 3/043
                            {Block and tackle system with variable number of cable parts }
B66D 3/046
                            {Openable pulley blocks }
B66D 3/06
                            with more than one pulley
B66D 3/08
                               Arrangements of sheaves
                      . . .
B66D 3/10
                               Applications of braking or detent devices
                      . . .
B66D 3/12
                         Chain or like hand-operated tackles with or without power transmission gearing
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	between operating member and lifting rope, chain or cable
B66D 3/14	lever operated
B66D 3/16	operated by an endless chain passing over a pulley or a sprocket
B66D 3/18	Power-operated hoists
B66D 3/20	with driving mater, a g. electric mater, and drum or harrel contained in a common
B00D 3/20	housing
B66D 3/22	with variable-speed gearings between driving motor and drum or barrel
B66D 3/24	Applications of limit switches
B66D 3/26	Other details, e.g. housings
B66D 5/00	Braking or detent devices characterised by application to lifting or hoisting gear, e.g. for controlling the lowering of loads (for pulley blocks B66D 3/10)
B66D 5/02	. Crane, lift hoist, or winch brakes operating on drums, barrels, or ropes
B66D 5/023	{Cooling of brakes (in general <u>F16D</u>)}
B66D 5/026	{Fluid-resistance brakes }
B66D 5/04	actuated by centrifugal force
B66D 5/06	with radial effect (B66D 5/20 takes precedence)
B66D 5/08	embodying blocks or shoes
B66D 5/10	embodying bands
B66D 5/12	with axial effect (B66D 5/22 takes precedence)
B66D 5/14	embodying discs
B66D 5/16	for action on ropes or cables
B66D 5/18	 for generating braking forces which are proportional to the loads suspended Load-actuated brakes
B66D 5/20	with radial effect
B66D 5/22	with axial effect
B66D 5/24	Operating devices
B66D 5/26	pneumatic or hydraulic
B66D 5/28	specially adapted for winding gear, e.g. in mining hoists
B66D 5/30	electrical
B66D 5/32	. Detent devices
B66D 5/34	having latches
Guide heading:	
B66D 2700/00	Capstans, winches or hoists
B66D 2700/01	. Winches, capstans or pivots
B66D 2700/0108	with devices for paying out or automatically tightening the cable
B66D 2700/0116	Manually or spring operated winches
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B66D 2700/0125	Motor operated winches
B66D 2700/0133	Fluid actuated
B66D 2700/0141	Electrically actuated
B66D 2700/015	Actuated by chain, belt or by friction
B66D 2700/0158	Hydraulically controlled couplings or gearings
B66D 2700/0166	Winches with multiple drums or with drums with multiple parts of different diameter
B66D 2700/0175	with adjacent drums mounted on a single shaft with a common coupling member
B66D 2700/0183	 Details, e.g. winch drums, cooling, bearings, mounting, base structures, cable guiding or attachment of the cable to the drum
B66D 2700/0191	Cable guiding during winding or paying out
B66D 2700/02	. Hoists or accessories for hoists
B66D 2700/021	Hauling devices
B66D 2700/023	Hoists
B66D 2700/025	motor operated
B66D 2700/026	Pulleys, sheaves, pulley blocks or their mounting
B66D 2700/028	Pulley blocks with multiple sheaves
B66D 2700/03	 Mechanisms with latches or braking devices in general for capstans, hoists or similar devices as well as braking devices actuated electrically or by fluid under pressure
B66D 2700/035	Fluid operated braking devices
B66D 2700/05	. Brakes with mechanisms with latches for hoists or similar devices
B66D 2700/07	. Brakes with axial thrust for winches, hoists or similar devices